

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
27 March 2025 (27.03.2025)



(10) International Publication Number
WO 2025/061516 A1

(51) International Patent Classification:

C08F 220/14 (2006.01) G02B 1/04 (2006.01)
C08L 33/12 (2006.01)

Published:

- with international search report (Art. 21(3))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

(21) International Application Number:

PCT/EP2024/075178

(22) International Filing Date:

10 September 2024 (10.09.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

23198493.1 20 September 2023 (20.09.2023) EP

(71) Applicant: RÖHM GMBH [DE/DE]; Deutsche-Telekom-Allee 9, 64295 Darmstadt (DE).

(72) Inventor: CARLOFF, Rüdiger; Malvenweg 29, 64291 Darmstadt (DE).

(74) Agent: RÖHM PATENT ASSOCIATION; Deutsche-Telekom-Allee 9, 64295 Darmstadt (DE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(54) Title: COPOLYMER BASED ON METHYL METHACRYLATE AND OPTICAL GRADE MOULDING COMPOSITION COMPRISING IT

(57) Abstract: The present invention is directed to copolymers based on methyl methacrylate and a norbornene type monomer having increased heat resistance, high transparency and low haze values. Further, the invention relates to moulding compositions comprising the inventive copolymer and to a process for easy production of the inventive copolymer by radical polymerisation. The moulding compositions of the present invention are highly suitable for the manufacturing of moulded articles, that can be used as optical elements in various optical devices, e.g. as light guides or lamp covers.



WO 2025/061516 A1